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OPERATORS MANUAL

for the

ORS-1075HS and ORS-1058HS Hush Slush®

Surgical Slush Systems

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OPERATORS MANUAL

INTRODUCTION

The ORS-1075HS and the ORS-1058HS (Hush Slush®) Surgical Slush Systems are designed to produce soft surgical slush. Both systems have the option to also provide controlled warming for solutions when coupled with the ORS-2000 Series Solution Warmer. By utilizing the ORS-K24 Auto-Slush® Kit, these machines can produce consistently high quality slush by automating the slush making process.

IMPORTANT LABELS AND INDICATORS

Power - When lit, indicates slush machine is on.

Auto-Stir® - When lit, indicates the Auto-Slush® kit is on.

Serial Number and Ratings

OPERATING AND WARNING LABELS

DANGER: RISK OF EXPLOSION IF USED IN THE PRESENCE OF FLAMMABLE ANESTHETICS.

WARNING: DO NOT USE A HEAT TRANSFER MEDIUM IN THIS SLUSH MACHINE WHEN USING AUTO-SLUSH®. THIS MAY RESULT IN A FIRE HAZARD.

WARNING: DO NOT PLACE HANDS OR OBJECTS IN THE SLUSH MACHINE BASIN WHILE AUTO-SLUSH® IS OPERATING. FAILURE TO COMPLY MAY RESULT IN AN INJURY AND/OR DAMAGE TO THE MACHINE.

WARNING: DO NOT USE AUTO-SLUSH® WITHOUT AN APPROVED ORS DRAPE IN THE BASIN.

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WARNING: RISK OF FIRE. REPLACE FUSE AS MARKED: 250V 15A TIME DELAY.

WARNING: ONLY USE THIS OUTLET FOR ORS-2000 SERIES WARMING MACHINE! 120V 3A

CAUTION: DRAPE MAY FREEZE TO THE BASIN. TURN OFF THE MACHINE TO "FREE" THE DRAPE FROM THE BASIN. TO PREVENT RE-FREEZING TO THE BASIN, SCRUB NURSE MUST LIFT THE DRAPE AWAY FROM THE BASIN WALL IN THE 12, 3, 6 AND 9 O'CLOCK POSITIONS AND REPEAT UNTIL THE BASIN IS FROSTED.

CAUTION: ELECTRIC SHOCK HAZARD, DO NOT REMOVE PROTECTIVE PANEL. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

NOTE:

- Make sure that both power buttons are turned off before unplugging the power cord.

- Covering the slush machine's air vents with a filtering material and/or drape may cause damage to the slush machine. Use of a drape other than the drape approved by O.R. Solutions, Inc. for use with the machine may impair the operation of the machine; and/or lead to breaches of the sterile field.

OPERATING INSTRUCTIONS FOR SLUSH MACHINE WITH THE AUTO-SLUSH® KIT INSTALLED

A. Make sure the basin is clean and dry.
B. Drape the slush machine per Disc-Drape® or Plate-Drape® instructions.
C. Add the desired quantity of solution into the draped basin.
   NOTE: The Auto-slush® Kit reduces basin capacity.
   Pre-chilled solution reduces the time to make slush.
D. Press the POWER button to turn the slush machine on.
E. Press the Auto-Stir® button to turn on the Auto-Slush®.
F. Periodically check the slush machine basin to ensure that the drape is not gathering underneath the Disc/Plate and is still in contact with the basin walls.
G. Depress the Auto-Stir® button to turn off the Auto-Slush® when stirring slush or removing slush from basin.
H. Remove slush as needed. It may be necessary to whisk the slush just prior to removing.
I. At the end of the procedure, make sure ALL power buttons are turned off.
J. Discard the solution and drape per hospital guidelines.

NOTE:

- The ORS-1075HS requires an O.R. Solutions® Disc-Drape® to ensure optimal performance and safety.
- The ORS-1058HS requires an O.R. Solutions® Plate-Drape® to ensure optimal performance and safety.
- Use only the wire whisk provided to stir the slush.
- Do not use sharp objects to stir the slush.
- Allow a minimum of 4" clearance on each side of the slush machine for airflow.

OPERATING INSTRUCTIONS FOR SLUSH MACHINE WITHOUT THE AUTO-SLUSH® KIT INSTALLED

A. Make sure the basin is clean and dry.
B. Drape the slush machine per drape instructions.
C. Add the desired quantity of solution into the draped basin.
D. Press the POWER button to turn the machine on.
E. As the ice forms, stir the solution with a sterilized wire whisk.
   NOTE: lift the side of the drape slightly and shake to dislodge ice.
F. Continue stirring the solution.
G. When finished, depress the POWER button to turn the slush machine off.
H. Discard the solution and drape per hospital guidelines.

NOTE:

- Use only the wire whisk provided to stir the slush.
- Do not use sharp objects to stir the slush.
- Allow a minimum of 4" clearance on each side of the slush machine for airflow.

MAINTENANCE
ORS Hush Slush® Machines

1. ORS Hush Slush® Surgical Slush Systems are designed to require minimal maintenance. After each use, the stainless steel should be cleaned and dried using a lint-free cloth with isopropyl alcohol. This is particularly important for the stainless steel basin of the slush machine; the alcohol helps dry the basin.

2. Quarterly Maintenance of Slush Machine:

   a. The slush machine basin should be scrubbed with a non-abrasive cleanser (example: Soft Scrub).

   b. The power cord and plug should also be inspected for any unusual signs of wear or abuse. If abuse or wear is noted, contact O.R. Solutions, Inc.

3. Filter Maintenance: Frequency of machine usage will determine how often the filter should be cleaned. The filter should be cleaned quarterly at a minimum or more often with high usage.

   The filter must be removed from the machine through the access panel. Inspect the filter for any holes and rinse with water to remove particles. Reinstall the filter in the machine. If the filter is damaged, contact O.R. Solutions, Inc. for a replacement.

TROUBLESHOOTING
ORS-1075HS and ORS-1058HS Surgical Slush Systems

Problem: Power Button does not light up.

O.R. Solution: Check to make sure that the machine is plugged in and the outlet is active. Inspect the fuse and the power cord/plug for wear or abuse.

Problem: Slow to make slush.

O.R. Solution: Check Filter (replace if required); ensure you use room temperature solution; check Draping.

Problem: Proper slush consistency is not achieved.

O.R. Solution: Make sure that there is not excessive air under the drape and that the drape does not gather underneath the Disc/Plate. If the drape does gather under the Disc/Plate, gently ease the drape out from under the Disc/Plate into the proper position.

Problem: Drape freezes to basin wall.

O.R. Solution: Make sure that the basin is clean and dry before draping the slush machine. If the machine is turned off for an extended period of time during the procedure, the drape may freeze to the basin wall when the machine is turned on again. When this occurs, turn off the machine and "gently free" the drape from the basin. To prevent re-freezing when the machine is turned back on, the drape must be lifted away from the basin wall in the 12, 3, 6 and 9 o'clock positions and repeat until the basin is frosted.

Problem: Small amount of water in the basin after use.

O.R. Solution: It is normal for a small amount of water to collect in the basin due to condensation. Dry the basin with a lint-free cloth and isopropyl alcohol.

Problem: Basin requires cleaning.

O.R. Solution: Scrub the basin with a non-abrasive cleanser (example: Soft Scrub).

Problem: Auto-Slush® Kit does not operate.

O.R. Solution: Make sure that the machine's power button and Auto-Stir® button are both on. If the Auto-Slush® stops working during the procedure, turn off the Auto-Stir® button. The machine will continue to make slush when the Auto-Stir® is not functioning. The scrub nurse should monitor the slush making process more closely and manually stir the solution to achieve the desired consistency of the slush and to prevent an ice ring from forming. When the procedure is over, instruct Biomedical Engineering to contact O.R. Solutions, Inc. before using the machine again.

NOTE: For machines equipped with the Auto-Slush® Kit, see Auto-Slush® Operators Manual for troubleshooting.

WARNING: If machine does not operate properly, contact O.R. Solutions, Inc.

SPECIFICATIONS
ORS-1075HS AND ORS-1058HS SURGICAL SLUSH SYSTEMS

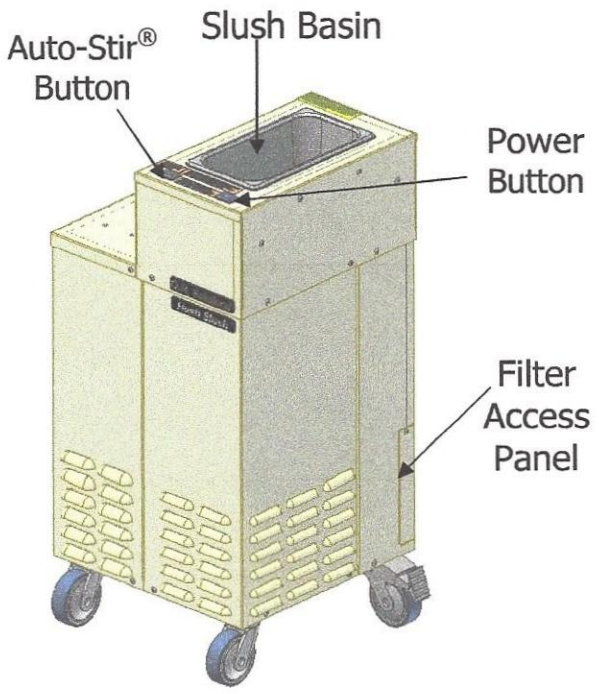
Power:	120 VAC; 12 Amps 60HZ
Temperature Range:	30° F to 32°F
Refrigeration Unit:	750btu/hr
Refrigerant:	R404
High Pressure Side:	350 psi
Low Pressure Side:	150 psi
Cooling:	Air
Fuse	250VAC; 15 Amp, ¼" X 1 ¼", Time Delay

Dimensions:

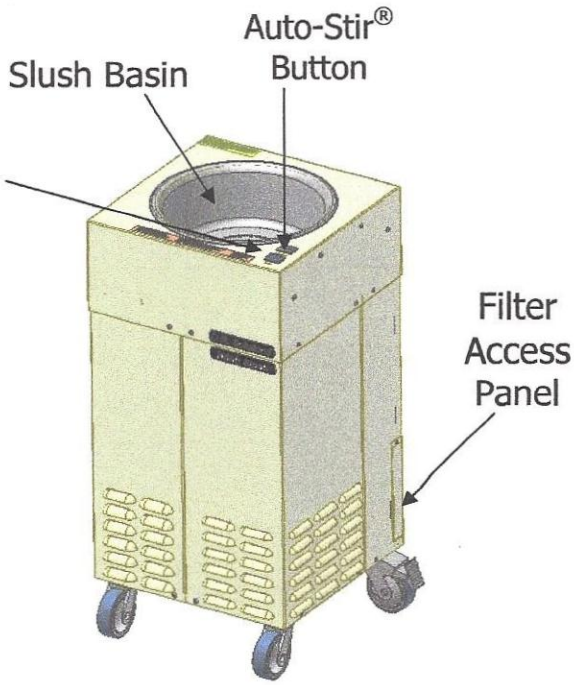
Model	Height	Width	Depth
Standard	36" *	18"	18"

(* 42", 44.5" and 48" Height available through special order)

Capacity:	ORS-1058HS	5.8 Liters
	ORS-1075HS	7.5 Liters

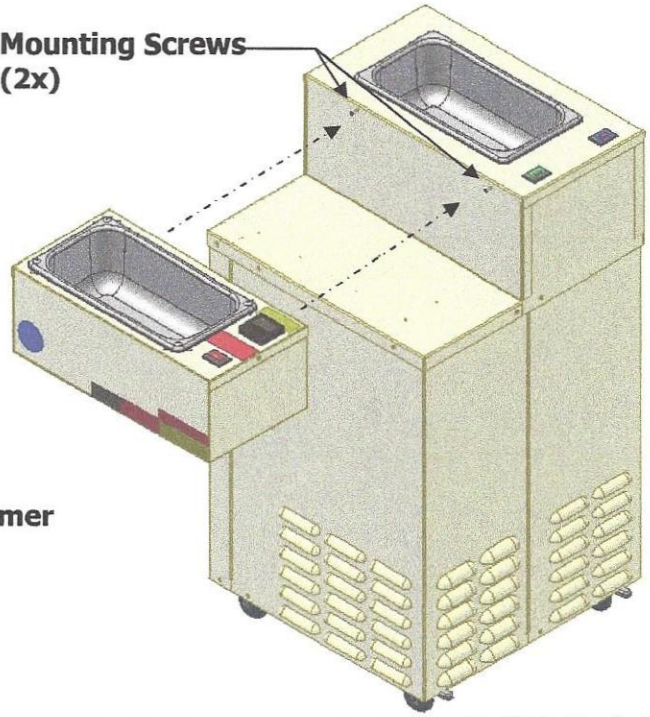


ORS-1058HS

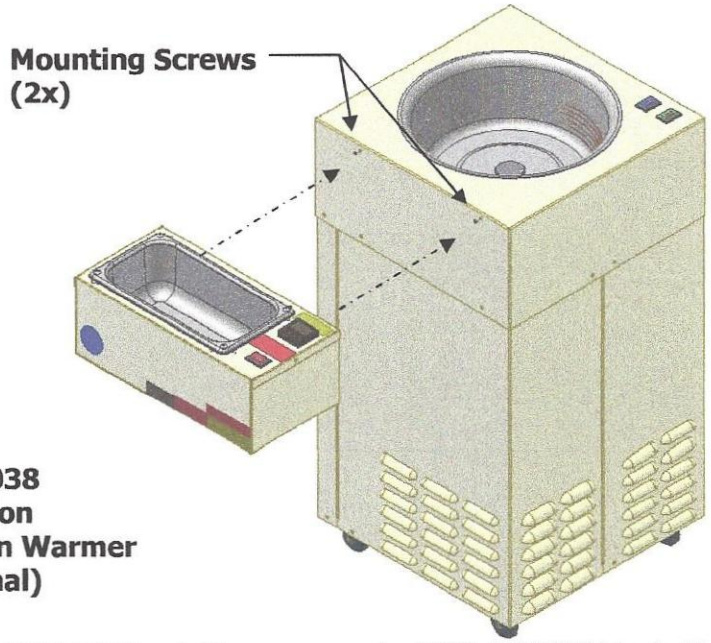


ORS-1075HS

WARMER MOUNTING INSTRUCTIONS



Mounting of ORS-2038 solution warmer to ORS-1058HS Hush Slush® Machine
Using the precut slots in the warmer, attach warmer to the mounting screws on the slush machine as indicated in the diagram above.



Mounting of ORS-2038 solution warmer to ORS-1075HS Hush Slush® Machine
Using the precut slots in the warmer, attach warmer to the mounting screws on the slush machine as indicated in the diagram above.